

DPM 950-36

VMC-3027

**VULCAN MATERIALS COMPANY
METALS DIVISION**

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME Vulcan Materials Co. - Metals Division		EMERGENCY TELEPHONE NO. 412/331-0770 (Pittsburgh)
ADDRESS (Number, Street, City, State, and ZIP Code) P. O. Box 7588, Birmingham, AL 35253-0588		
CHEMICAL NAME AND SYNONYMS Potassium Stannate		TRADE NAME AND SYNONYMS Potassium Stannate Trihydrate
CHEMICAL FAMILY Inorganic Tin Compounds	FORMULA $K_2SnO_3 \cdot 3H_2O$	CAS NUMBER 12142-33-5
DOT HAZARDOUS MATERIAL SHIPPING NAME None		DOT HAZARD SHIPPING CLASS None

SECTION II - HAZARDOUS INGREDIENTS

Potassium Hydroxide (KOH) - 1.0% maximum

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O = 1)	3.197
VAPOR PRESSURE (mm Hg.)	N/A	XXXXXXXXXX Molecular Weight	298.94
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ = 1)	N/A
SOLUBILITY IN WATER % by weight	52	Density (g/cc)	3.2
APPEARANCE AND ODOR White to tan crystals, essentially odorless.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) <div style="text-align: center; padding: 5px;">Non-flammable</div>	FLAMMABLE LIMITS <div style="text-align: center; padding: 5px;">N/A</div>	Lel <div style="text-align: center; padding: 5px;"> </div>	Uel <div style="text-align: center; padding: 5px;"> </div>
EXTINGUISHING MEDIA Media appropriate to nature of fire.			
SPECIAL FIRE FIGHTING PROCEDURES If material is released or spilled in presence of fire: Avoid contact with skin, eyes, or clothing Do not breathe fumes or dust			
UNUSUAL FIRE AND EXPLOSION HAZARDS Irritating fumes may be given off if material is heated or exposed to fire.			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE For Potassium Hydroxide - OSHA PEL & ACGIH PEL - 2 mg/M ³ ACGIH STEL - 4 mg/M ³
EFFECTS OF OVEREXPOSURE May cause irritation to skin or eyes upon contact. Irritation of mucous membranes could result from inhalation of dust.
EMERGENCY AND FIRST AID PROCEDURES In case of CONTACT, remove contaminated clothing; wash skin thoroughly with soap and water. Get medical attention if skin irritation occurs. Wash clothing before reuse. In case of EYE CONTACT, flush eyes with running water for at least 15 minutes. See a physician. In case of INHALATION of dust or fumes, move individual to well-ventilated area. If breathing is difficult, administer oxygen. Keep individual quiet and maintain normal body temperature. Get medical attention promptly. If Potassium Stannate has been INGESTED and individual is conscious, give large quantities of milk of magnesia or lime water. If neither of these is available, give plain water. Do not give sodium bicarbonate or make any effort to induce vomiting. If individual is unconscious, do not attempt to give anything but insure unobstructed breathing. Obtain medical attention as soon as possible.

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) Not normally required			
VENTILATION	LOCAL EXHAUST	SPECIAL	
	Recommended		
	MECHANICAL (General)	OTHER	
PROTECTIVE GLOVES Rubber gloves		EYE PROTECTION Chemical workers' goggles	
OTHER PROTECTIVE EQUIPMENT None			

[illegible]

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SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) Avoid contact with strong mineral acids.			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
If possible, sweep up spilled material. Place in secure container and contact manufacturer for information on return of material for recovery of tin values.	
Flush spill area with large volumes of water, neutralize alkaline residue with dilute acetic acid to pH7.	
May be injurious to aquatic life if released to open waters.	
WASTE DISPOSAL METHOD	
Contact manufacturer at 800/633-8908 for information on return of spilled material for recovery of tin values.	
Neutralize spilled material as described above. Follow applicable regulations for chemical disposal.	

NOTICE AND WARNING

This Material Safety Data Sheet is furnished by Vulcan Materials Company, Metals Division, in an effort to promote the safe handling of its chemical products. The sheet briefly summarizes certain product characteristics and handling procedures; more detailed information is available by contacting Vulcan Materials Company at the number listed below.

Vulcan Materials Company cannot directly provide every user or handler of its products with product information. We therefore encourage our customers and distributors to disseminate current information to those persons who are likely users or handlers. Additional copies of the Material Safety Data Sheet may be obtained by calling toll free 1-800-633-8908.

Vulcan Materials Company believes that the information contained on the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements.

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